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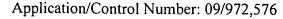


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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/972,576	10/05/2001	Petrus Hubertus Cornelis Magnee	NL 000549	4658
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Tarrytown, NY	10591		ART UNIT	PAPER NUMBER
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Please find below and/or attached an Office communication concerning this application or proceeding.

Application No. Og/972.376 Examiner Junghwa M. Im - The MAILING DATE of this communication appears on the cover sheet with the correspondence address — Period for Reply X. SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE of THIS COMMUNICATION. Extensions of times may be explicitly under the providence of ST CPT-1 (1960). In no event, however, may a reply be timely fined if the period for rely specified shows the state but his (100 days. a seely within the stationy misminum of they (30) days will be considered timely. If NO period for rely specified shows the maximum state of period will apply and will spoke the North (20) days will be considered timely. If NO period for rely specified shows the maximum state of period will apply and will spoke the North (20) days and seely within the stationy misminum they (30) days will be considered timely. If NO period for rely specified shows the test based the period days a seely within the stationy misminum of they (30) days will be considered timely. If NO period for rely specified shows the state that maximum state the realisting date of the communication, even if limely filed, may reduce any state of the communication and the state of the state			LA P No.	<u> </u>			
Examiner Art Unit 2811	•		Application No.	Applicant(s)			
Durghwa M. Im 2811	Office Action Commence		09/972,576	MAGNEE ET AL.			
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Period for Reply **A SHORTEMED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 2 MONTH(S) FROM THE MALING DATE OF THIS COMMUNICATION. **after SIX (a) MONTHS from the mailing date of this communication. If the period for reply specified above, the maximum statutory period will apply and will apply a depth by the timely filed sense SIX (a) MONTHS from the mailing date of this communication. If the period for reply specified above, the maximum statutory period will apply and will apply apply and will apply apply and will apply and will apply apply and will apply apply and will apply apply and will apply apply apply and will apply apply apply apply and will apply		7	<u> </u>	1			
THE MAILING DATE OF THIS COMMUNICATION. Edetendors of time may be arabidise under the provisions of 37 CPR 1.13(d). In no event, however, may a reply be timely fled after \$13.(6) MONTH's from the mailing date of this communication. Fallure to Risk (6) MONTH's from the mailing date of this communication. Fallure to reply is spricial above, the machinish and the provision of t			pears on the cover sheet with the	correspondence address			
2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-8 is/are pending in the application. 4a) Of the above claim(s) 6-8 is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved by disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some c) None of: 1 Certified copies of the priority documents have been received. 2 Certified copies of the priority documents have been received in Application No 3 Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121. * Attachment(s) 1 Notice of Priesperson's Patent Drawing Review (PTO-948) 3 Notice of Draftsperson's Patent Drawing Review (PTO-948) 3 Notice of Informal Patent Application (PTO-152) 5 Patent and Trawmak Office	THE N - Exter after - If the - If NO - Failur - Any re	MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. period for reply specified above is less than thirty (30) days, a reply period for reply is specified above, the maximum statutory period vere to reply within the set or extended period for reply will, by statute eply received by the Office later than three months after the mailing	36(a). In no event, however, may a reply be to y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror , cause the application to become ABANDON	imely filed ays will be considered timely. the mailing date of this communication. ED (35 U.S.C. § 133).			
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			tion Summary	Part of Paper No. 8			



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DETAILED ACTION

Election/Restrictions

Applicant's election of claims 1-5 in Paper No. 6 is acknowledged. Because applicant did not distinctly and specifically point out the supposed errors in the restriction requirement, the election has been treated as an election without traverse (MPEP § 818.03(a)).

Claims 6-8 are cancelled.

Drawings

The drawings are objected to. Correction of 26^a in Figures 3i, and 3m should be 26a.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application.

The objection to the drawings will not be held in abeyance.

Specification

The disclosure is objected to because of the following informalities.

The specification should include the subheadings with the corresponding sections in order. (See form paragraph 6.01 in MPEP Section 608.01(a)).

Appropriate correction is required.

Application/Control Number: 09/972,576

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-5 are rejected under 35 U.S.C. 102(b) as being anticipated by Zambrano (U.S. Pat. No. 5,300,451).

Regarding claim 1, Zambrano shows in Fig. 1, a semiconductor arrangement comprising; a substrate having a substrate layer N (second layer from the bottom) with an upper surface and a lower surface, the substrate layer being a first conductivity N;

a first buried layer N^+ (left side portion of the bottom layer N^+) in the substrate, extending along said lower surface below a first portion of said upper surface of said substrate layer, and a second buried layer N^+ (right side portion of the bottom layer N^+) in the substrate, extending along said lower surface below a second portion of said upper surface of said substrate layer;

a first diffusion region (region designated with P⁺ and B) in said first portion of said substrate layer, being of a second conductivity type P⁺ opposed to said first conductivity type N⁺ and having a first distance I to said first buried layer for defining a first breakdown voltage between said first diffusion region and first buried layer;

a second diffusion region (region surrounded by P1 and P2) in said second portion of said substrate layer, being of a second conductivity type P^+ and having a second distance D to said second buried layer for defining a second breakdown voltage between said second diffusion



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region and second buried layer;

said first distance I being larger than said second distance D such that said first breakdown voltage is larger than said second breakdown voltage (col.3, lines 10-25).

Regarding claim 2, Zambrano shows in Fig. 1, the first diffusion region is a base B of a bipolar transistor and the first buried layer is a collector C of said bipolar transistor.

Regarding claim 3, Zambrano shows in Fig. 1, the second diffusion region is an anode of protection diode and the second buried layer is a cathode of the protection diode (col.3, lines 2-25).

Also see Fig. 2 for the circuit equivalent of Fig. 1.

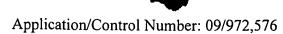
Regarding claim 4, Zambrano shows in Fig. 1, the first buried layer is connected to said second buried layer, and the first and second buried layers are manufactured in the same step.

Regarding claim 5, Zambrano shows in Fig. 21, the semiconductor arrangement further comprising

a channel stopper region 22 in said second portion of said substrate layer;

the channel stopper region being of said first conductivity type N⁻, for electrically isolating said second portion of said substrate layer within the substrate, wherein said channel stopper regions in between said second diffusion layer 21 and said second buried layer 24 for reducing said second breakdown voltage.

Also, regarding the correlation between a breakdown voltage and a distance defined by a diffused region and a buried layer, see the respective portions of Zambrano's specification such as col. 3, lines 10-35.



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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Junghwa M. Im whose telephone number is (703) 305-3998. The examiner can normally be reached on MON.-FRI. 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (703) 308-2772. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 308-7722 for regular communications and (703) 308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308-0956.

JMI November 12, 2002

TOM THOMAS SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800